

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: IRiS

Report Number: P1334515

Luminaire Tested: P3A02R209840DE010 E3A451WH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1334515  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-74)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A02R209840DE010 E3A451WH  
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 98CRI , E3A451WH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

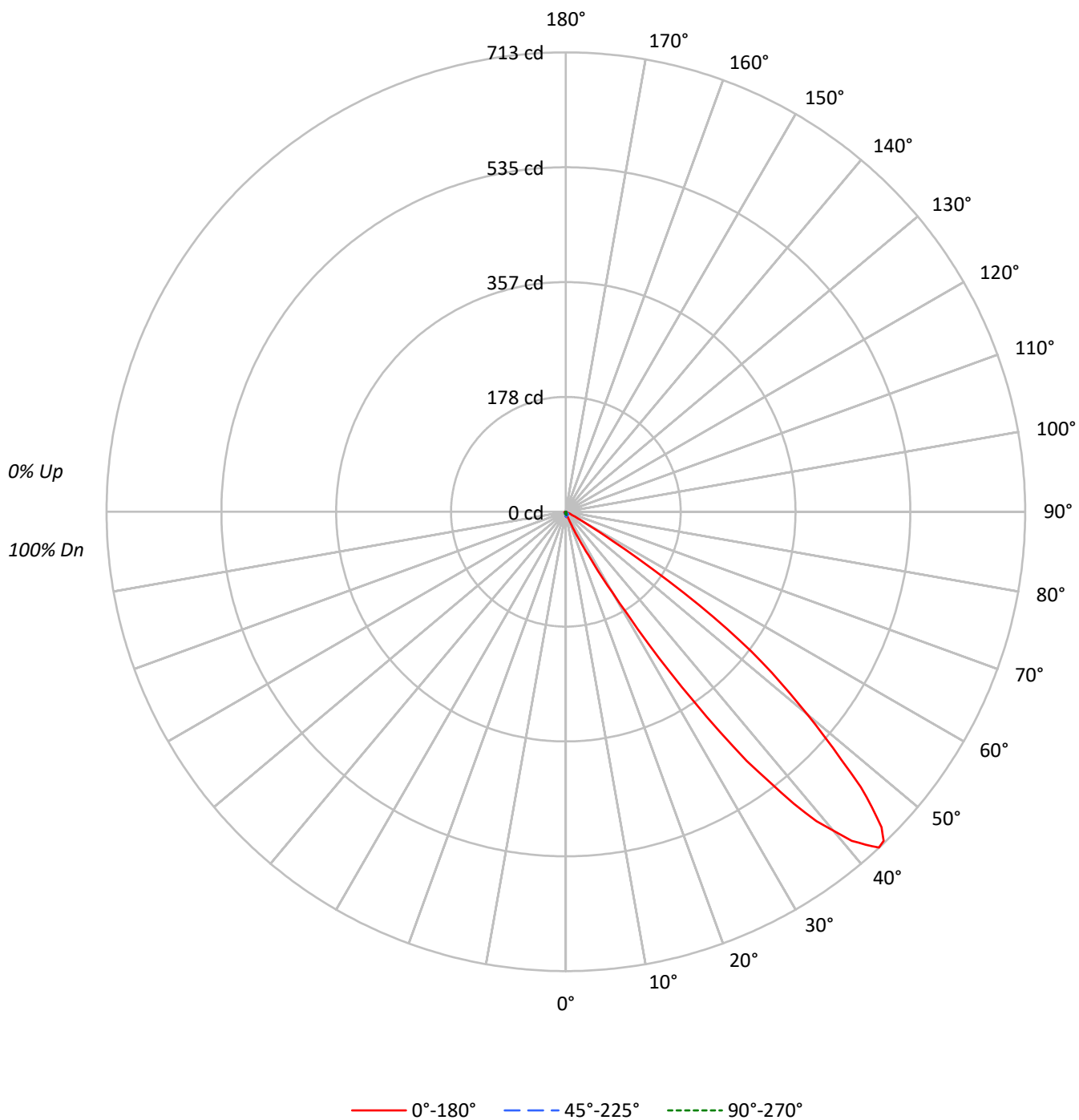
Lumens per Lamp: N/A  
Luminaire Lumens: 99.0 lumens  
Efficiency: N/A  
Efficacy: 27.5 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.13  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 97  | 100 | 97  | 94  | 96  | 94  | 92  | 92  | 91  | 89  | 87  |    |    |
| 2   | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 78  | 75  | 73  |    |    |
| 3   | 92  | 81  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 74  | 69  | 65  | 72  | 67  | 63  | 61  |    |    |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 53  | 51  |    |    |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 53  | 46  | 59  | 51  | 46  | 57  | 50  | 45  | 55  | 49  | 45  | 42  |    |    |
| 6   | 68  | 55  | 45  | 39  | 66  | 54  | 45  | 38  | 52  | 44  | 38  | 50  | 43  | 38  | 48  | 42  | 37  | 35  |    |    |
| 7   | 62  | 48  | 39  | 32  | 60  | 47  | 38  | 32  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 31  | 29  |    |    |
| 8   | 57  | 42  | 33  | 27  | 55  | 42  | 33  | 27  | 40  | 33  | 27  | 39  | 32  | 27  | 38  | 31  | 27  | 25  |    |    |
| 9   | 52  | 38  | 29  | 23  | 51  | 37  | 29  | 23  | 36  | 28  | 23  | 35  | 28  | 23  | 34  | 27  | 23  | 21  |    |    |
| 10  | 48  | 34  | 25  | 20  | 47  | 33  | 25  | 20  | 32  | 25  | 19  | 31  | 24  | 19  | 30  | 24  | 19  | 17  |    |    |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 1513   | 1513 | 1513 | 1513 | 1513 |
| 5°  | 1761   | 1629 | 1409 | 1233 | 1189 |
| 10° | 1737   | 1492 | 1113 | 957  | 935  |
| 15° | 1521   | 1135 | 817  | 749  | 795  |
| 20° | 2264   | 957  | 607  | 653  | 723  |
| 25° | 9726   | 992  | 484  | 581  | 702  |
| 30° | 36765  | 1190 | 405  | 557  | 684  |
| 35° | 111467 | 1446 | 375  | 562  | 723  |
| 40° | 184861 | 1431 | 315  | 601  | 773  |
| 45° | 214844 | 992  | 279  | 620  | 837  |
| 50° | 166783 | 546  | 273  | 682  | 955  |
| 55° | 96532  | 344  | 268  | 765  | 1032 |
| 60° | 16314  | 88   | 263  | 789  | 1140 |
| 65° | 1245   | 0    | 311  | 882  | 1297 |
| 70° | 192    | 0    | 385  | 962  | 1475 |
| 75° | 169    | 85   | 424  | 1101 | 1694 |
| 80° | 126    | 126  | 631  | 1137 | 2020 |
| 85° | 252    | 252  | 1006 | 1258 | 2013 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 214844 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.6    | 0.6       |
| 10°-20°   | 1.2    | 1.3       |
| 20°-30°   | 4.0    | 4.0       |
| 30°-40°   | 25.2   | 25.5      |
| 40°-50°   | 46.2   | 46.7      |
| 50°-60°   | 19.0   | 19.2      |
| 60°-70°   | 1.6    | 1.6       |
| 70°-80°   | 0.8    | 0.8       |
| 80°-90°   | 0.4    | 0.4       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| <hr/>     |        |           |
| 0°-30°    | 5.8    | 5.8       |
| 0°-40°    | 31.0   | 31.3      |
| 0°-60°    | 96.2   | 97.2      |
| 0°-90°    | 99.0   | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 99.0   | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 7   | 7   | 7   | 7    | 7    |      |
| 5°  | 8   | 7   | 6   | 6    | 5    | 1    |
| 15° | 7   | 5   | 4   | 3    | 4    | 2    |
| 25° | 40  | 4   | 2   | 2    | 3    | 26   |
| 35° | 416 | 5   | 1   | 2    | 3    | 264  |
| 45° | 693 | 3   | 1   | 2    | 3    | 497  |
| 55° | 252 | 1   | 1   | 2    | 3    | 221  |
| 65° | 2   | 0   | 1   | 2    | 2    | 8    |
| 75° | 0   | 0   | 0   | 1    | 2    | 0    |
| 85° | 0   | 0   | 0   | 0    | 1    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 2.5°  | 5°    | 7.5°  | 10°   | 12.5° | 15°   | 17.5° | 20°   | 22.5° | 45° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| 0°    | 6.9   | 6.9   | 6.9   | 6.9   | 6.9   | 6.9   | 6.9   | 6.9   | 6.9   | 6.9   | 6.9 |
| 2.5°  | 7.5   | 7.5   | 7.5   | 7.4   | 7.4   | 7.5   | 7.4   | 7.4   | 7.4   | 7.4   | 7.3 |
| 5°    | 8.0   | 8.0   | 8.0   | 8.0   | 8.0   | 8.0   | 8.0   | 7.9   | 7.9   | 7.8   | 7.4 |
| 7.5°  | 8.2   | 8.2   | 8.2   | 8.2   | 8.1   | 8.1   | 8.1   | 8.1   | 8.0   | 7.9   | 7.3 |
| 10°   | 7.8   | 7.8   | 7.8   | 7.7   | 7.7   | 7.7   | 7.6   | 7.6   | 7.5   | 7.4   | 6.7 |
| 12.5° | 7.1   | 7.1   | 7.1   | 7.1   | 7.0   | 7.0   | 6.9   | 6.9   | 6.8   | 6.7   | 5.9 |
| 15°   | 6.7   | 6.7   | 6.7   | 6.6   | 6.6   | 6.5   | 6.4   | 6.3   | 6.2   | 6.0   | 5.0 |
| 17.5° | 7.3   | 7.3   | 7.2   | 7.2   | 7.0   | 6.8   | 6.7   | 6.4   | 6.2   | 6.0   | 4.5 |
| 20°   | 9.7   | 9.8   | 9.4   | 9.1   | 8.9   | 8.4   | 8.1   | 7.6   | 7.3   | 6.8   | 4.1 |
| 22.5° | 19.5  | 19.2  | 18.5  | 17.5  | 16.3  | 15.3  | 13.4  | 11.9  | 10.9  | 9.5   | 4.0 |
| 25°   | 40.2  | 39.8  | 38.1  | 36.6  | 32.8  | 30.0  | 26.0  | 22.7  | 19.4  | 16.1  | 4.1 |
| 27.5° | 76.4  | 73.9  | 73.4  | 66.6  | 61.4  | 54.0  | 46.2  | 39.7  | 33.8  | 27.2  | 4.4 |
| 30°   | 145.2 | 142.3 | 132.2 | 122.0 | 107.9 | 92.0  | 76.8  | 62.7  | 50.9  | 40.2  | 4.7 |
| 31°   | 184.3 | 187.1 | 175.2 | 154.6 | 133.9 | 113.5 | 92.8  | 74.8  | 59.5  | 46.2  | 4.9 |
| 32°   | 242.3 | 230.1 | 217.5 | 196.4 | 166.3 | 140.2 | 114.2 | 88.3  | 68.2  | 52.8  | 5.1 |
| 33°   | 297.1 | 289.9 | 270.7 | 244.4 | 208.2 | 171.7 | 137.9 | 104.2 | 78.8  | 60.7  | 5.2 |
| 34°   | 355.5 | 347.6 | 332.0 | 294.3 | 254.5 | 206.6 | 161.6 | 122.5 | 91.5  | 68.4  | 5.3 |
| 35°   | 416.4 | 413.1 | 383.1 | 350.4 | 301.5 | 243.8 | 190.2 | 142.6 | 103.8 | 75.5  | 5.4 |
| 36°   | 477.7 | 467.0 | 443.5 | 395.7 | 344.7 | 278.1 | 220.1 | 161.3 | 116.4 | 83.8  | 5.4 |
| 37°   | 523.9 | 521.5 | 490.4 | 443.8 | 383.9 | 314.7 | 246.0 | 182.1 | 129.0 | 91.0  | 5.4 |
| 38°   | 574.8 | 565.2 | 533.7 | 486.2 | 420.7 | 348.3 | 273.1 | 200.1 | 141.0 | 97.5  | 5.3 |
| 39°   | 617.7 | 603.4 | 571.6 | 524.7 | 452.9 | 373.8 | 294.6 | 217.6 | 151.6 | 102.9 | 5.2 |
| 40°   | 645.8 | 635.9 | 602.7 | 549.9 | 482.1 | 397.9 | 316.3 | 232.0 | 159.6 | 107.0 | 5.0 |
| 41°   | 676.7 | 660.4 | 627.5 | 574.5 | 503.3 | 419.1 | 330.0 | 241.5 | 165.7 | 109.7 | 4.8 |
| 42°   | 695.3 | 681.9 | 642.9 | 591.0 | 518.5 | 431.2 | 341.2 | 248.8 | 169.4 | 111.1 | 4.5 |
| 43°   | 712.6 | 694.3 | 656.4 | 600.6 | 528.5 | 439.8 | 346.3 | 252.1 | 170.3 | 111.1 | 4.0 |
| 44°   | 710.2 | 692.9 | 653.6 | 601.9 | 530.8 | 442.3 | 348.4 | 252.2 | 169.0 | 109.7 | 3.5 |
| 45°   | 692.8 | 675.6 | 640.2 | 590.5 | 522.8 | 437.4 | 344.1 | 248.5 | 165.3 | 107.3 | 3.2 |
| 46°   | 660.9 | 643.8 | 616.6 | 571.5 | 507.9 | 426.2 | 334.2 | 240.4 | 159.3 | 103.4 | 2.8 |
| 47°   | 626.2 | 609.6 | 581.8 | 540.9 | 482.5 | 406.3 | 319.8 | 229.1 | 150.8 | 97.7  | 2.5 |
| 48°   | 575.9 | 565.5 | 537.6 | 502.7 | 447.2 | 375.1 | 294.5 | 210.5 | 139.5 | 90.3  | 2.1 |
| 49°   | 531.4 | 520.4 | 496.0 | 458.5 | 401.3 | 338.8 | 264.2 | 188.0 | 124.7 | 82.2  | 1.9 |
| 50°   | 488.9 | 479.3 | 456.7 | 414.4 | 359.8 | 295.0 | 223.4 | 159.7 | 106.1 | 72.0  | 1.6 |
| 51°   | 447.3 | 440.2 | 417.1 | 378.2 | 322.7 | 261.3 | 193.5 | 132.9 | 87.6  | 59.7  | 1.5 |
| 52°   | 405.5 | 404.7 | 379.7 | 340.3 | 286.7 | 227.8 | 164.5 | 112.2 | 74.3  | 50.1  | 1.4 |
| 53°   | 360.6 | 355.2 | 333.4 | 298.0 | 246.5 | 192.8 | 139.5 | 94.6  | 64.0  | 42.7  | 1.2 |
| 54°   | 309.4 | 303.4 | 279.9 | 248.0 | 201.4 | 157.9 | 112.4 | 76.5  | 53.3  | 36.1  | 1.1 |
| 55°   | 252.5 | 242.2 | 225.1 | 192.4 | 157.3 | 120.5 | 86.8  | 60.6  | 42.6  | 30.1  | 0.9 |
| 56°   | 191.6 | 181.2 | 171.7 | 147.6 | 115.5 | 89.9  | 64.7  | 46.4  | 33.3  | 23.7  | 0.8 |
| 57°   | 133.2 | 132.7 | 116.9 | 98.4  | 77.2  | 61.2  | 44.3  | 32.7  | 23.5  | 18.4  | 0.7 |
| 58°   | 86.4  | 83.5  | 73.5  | 62.8  | 50.5  | 38.2  | 28.5  | 22.2  | 16.0  | 12.6  | 0.6 |
| 59°   | 60.6  | 54.8  | 49.4  | 41.9  | 31.8  | 24.1  | 18.3  | 14.2  | 11.1  | 8.7   | 0.4 |
| 60°   | 37.2  | 36.0  | 32.4  | 25.5  | 20.7  | 17.0  | 13.7  | 10.5  | 8.1   | 6.2   | 0.2 |
| 62.5° | 10.6  | 10.8  | 9.8   | 8.7   | 7.4   | 6.4   | 5.8   | 4.9   | 4.1   | 3.3   | 0.0 |
| 65°   | 2.4   | 2.3   | 2.5   | 2.3   | 2.1   | 2.1   | 1.9   | 1.7   | 1.5   | 1.4   | 0.0 |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 67.5° | 0.7 | 0.7  | 0.7 | 0.7  | 0.7 | 0.6   | 0.6 | 0.5   | 0.5 | 0.4   | 0.0 |
| 70°   | 0.3 | 0.3  | 0.3 | 0.3  | 0.3 | 0.2   | 0.2 | 0.2   | 0.1 | 0.1   | 0.0 |
| 72.5° | 0.3 | 0.3  | 0.3 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.1 | 0.1   | 0.1 |
| 75°   | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 0.1   | 0.1 | 0.1   | 0.1 |
| 77.5° | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.1   | 0.2 | 0.1   | 0.1 | 0.1   | 0.1 |
| 80°   | 0.1 | 0.1  | 0.1 | 0.1  | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 |
| 82.5° | 0.1 | 0.1  | 0.1 | 0.1  | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 |
| 85°   | 0.1 | 0.1  | 0.1 | 0.1  | 0.0 | 0.0   | 0.1 | 0.1   | 0.1 | 0.0   | 0.1 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.1 |
| 90°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |

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**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 0°    | 6.9   | 6.9 | 6.9    | 6.9  | 6.9    | 6.9  |
| 2.5°  | 7.2   | 6.8 | 6.5    | 6.2  | 6.1    | 6.1  |
| 5°    | 7.0   | 6.4 | 5.9    | 5.6  | 5.4    | 5.4  |
| 7.5°  | 6.4   | 5.8 | 5.2    | 4.9  | 4.8    | 4.8  |
| 10°   | 5.8   | 5.0 | 4.5    | 4.3  | 4.3    | 4.2  |
| 12.5° | 5.0   | 4.3 | 3.9    | 3.8  | 3.8    | 3.8  |
| 15°   | 4.2   | 3.6 | 3.3    | 3.3  | 3.4    | 3.5  |
| 17.5° | 3.5   | 3.0 | 2.9    | 3.1  | 3.3    | 3.3  |
| 20°   | 3.0   | 2.6 | 2.6    | 2.8  | 3.0    | 3.1  |
| 22.5° | 2.5   | 2.2 | 2.3    | 2.6  | 2.9    | 3.0  |
| 25°   | 2.2   | 2.0 | 2.1    | 2.4  | 2.7    | 2.9  |
| 27.5° | 1.9   | 1.8 | 2.0    | 2.3  | 2.7    | 2.8  |
| 30°   | 1.6   | 1.6 | 1.9    | 2.2  | 2.6    | 2.7  |
| 31°   | 1.5   | 1.5 | 1.9    | 2.2  | 2.6    | 2.7  |
| 32°   | 1.4   | 1.5 | 1.8    | 2.2  | 2.6    | 2.7  |
| 33°   | 1.3   | 1.4 | 1.8    | 2.1  | 2.6    | 2.7  |
| 34°   | 1.2   | 1.4 | 1.8    | 2.1  | 2.6    | 2.7  |
| 35°   | 1.1   | 1.4 | 1.8    | 2.1  | 2.6    | 2.7  |
| 36°   | 1.0   | 1.3 | 1.7    | 2.1  | 2.6    | 2.7  |
| 37°   | 0.9   | 1.3 | 1.7    | 2.1  | 2.6    | 2.7  |
| 38°   | 0.8   | 1.2 | 1.7    | 2.1  | 2.6    | 2.7  |
| 39°   | 0.8   | 1.2 | 1.6    | 2.1  | 2.5    | 2.7  |
| 40°   | 0.7   | 1.1 | 1.6    | 2.1  | 2.5    | 2.7  |
| 41°   | 0.7   | 1.1 | 1.6    | 2.0  | 2.5    | 2.7  |
| 42°   | 0.6   | 1.0 | 1.5    | 2.0  | 2.5    | 2.7  |
| 43°   | 0.5   | 1.0 | 1.5    | 2.0  | 2.5    | 2.7  |
| 44°   | 0.5   | 0.9 | 1.5    | 2.0  | 2.5    | 2.7  |
| 45°   | 0.4   | 0.9 | 1.5    | 2.0  | 2.5    | 2.7  |
| 46°   | 0.3   | 0.9 | 1.5    | 2.0  | 2.5    | 2.7  |
| 47°   | 0.3   | 0.8 | 1.4    | 2.0  | 2.5    | 2.7  |
| 48°   | 0.2   | 0.8 | 1.4    | 2.0  | 2.5    | 2.7  |
| 49°   | 0.2   | 0.8 | 1.4    | 2.0  | 2.5    | 2.8  |
| 50°   | 0.2   | 0.8 | 1.4    | 2.0  | 2.5    | 2.8  |
| 51°   | 0.1   | 0.8 | 1.4    | 2.0  | 2.5    | 2.8  |
| 52°   | 0.1   | 0.8 | 1.3    | 2.0  | 2.6    | 2.8  |
| 53°   | 0.1   | 0.7 | 1.3    | 2.0  | 2.6    | 2.8  |
| 54°   | 0.1   | 0.7 | 1.3    | 2.0  | 2.6    | 2.7  |
| 55°   | 0.1   | 0.7 | 1.3    | 2.0  | 2.5    | 2.7  |
| 56°   | 0.1   | 0.7 | 1.3    | 2.0  | 2.5    | 2.7  |
| 57°   | 0.1   | 0.7 | 1.2    | 1.9  | 2.5    | 2.6  |
| 58°   | 0.1   | 0.7 | 1.2    | 1.9  | 2.5    | 2.6  |
| 59°   | 0.1   | 0.7 | 1.2    | 1.9  | 2.4    | 2.6  |
| 60°   | 0.2   | 0.6 | 1.1    | 1.8  | 2.4    | 2.6  |
| 62.5° | 0.2   | 0.6 | 1.1    | 1.8  | 2.3    | 2.5  |
| 65°   | 0.2   | 0.6 | 1.0    | 1.7  | 2.3    | 2.5  |



TEST NUMBER: P1334515

CATALOG NUMBER: P3A02R209840DE010 E3A451WH

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.2   | 0.5 | 0.9    | 1.6  | 2.2    | 2.4  |
| 70°   | 0.2   | 0.6 | 0.9    | 1.5  | 2.1    | 2.3  |
| 72.5° | 0.3   | 0.5 | 0.8    | 1.4  | 2.0    | 2.2  |
| 75°   | 0.3   | 0.5 | 0.8    | 1.3  | 2.0    | 2.0  |
| 77.5° | 0.4   | 0.5 | 0.7    | 1.1  | 1.8    | 1.9  |
| 80°   | 0.4   | 0.5 | 0.7    | 0.9  | 1.5    | 1.6  |
| 82.5° | 0.4   | 0.5 | 0.5    | 0.7  | 1.1    | 1.2  |
| 85°   | 0.3   | 0.4 | 0.4    | 0.5  | 0.7    | 0.8  |
| 87.5° | 0.3   | 0.4 | 0.3    | 0.2  | 0.4    | 0.4  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)